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ELASTIC FOR SUSPENDERS.
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Fig. 1.

Fig. 2.

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ELASTIC FOR SUSPENDERS.


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To all whom it may concern:

Be it known that I, WILLIAM C. HOLIDAY, a citizen of the United States, residing at Wekiwa, in the county of Lake and State of Florida, have invented a new and useful Improvement in Elastics for Suspenders and the like, of which the following is a specification.

This invention has relation to elastics especially adapted to be used in combination with suspenders or other supports for articles of wearing apparel.

The object of the invention is to provide a durable elastic which is flexible and pliable in order that it may elongate when subject to strain and contract when relieved of strain and in order that it may conform to the curvature of the body of the wearer as the body assumes different postures or positions.

With the above object in view the elastic is composed of a series of spring metallic members of peculiar configuration which are pivotally connected together, the terminal members of the series being provided with loops whereby the elastic may be secured to the strap of a suspender or other supporting means. The advantages possessed by an elastic of this character is that it possesses maximum elasticity and at the same time serves to resiliently support the article of apparel to which the suspenders are attached. By reason of the fact that it is composed of metallic members it will last much longer than rubber (which is usually employed for this purpose) for the reason that perspiration or moisture will not have the same deteriorating effect or action upon the spring members as it does have on rubber.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described, and then particularly pointed out in the claims and in the drawings illustrative of the preferred embodiment of the invention.

In the accompanying drawing:—Figure 1 is a side view of a pair of suspenders with parts in section showing the elastic applied thereto. Fig. 2 is a transverse sectional view of one of the end portions of one of the straps of the suspender cut on the line 2—2 of Fig. 1.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

As illustrated in the accompanying drawings A designates a pair of suspenders which is composed of two shoulder straps connected together in the usual manner. These straps consist of the relatively long end portions 10 and relatively short end portions 10'. Buckles 11 (of usual pattern) are attached to the ends of the longer portions 10 and engage the intermediate portions thereof whereby loops or return bends 12 are provided. Loops 13 are engaged with the portions 10 between the opposite sides of the return bends 12 and the loops 13 are provided at their lower sides with depressions 14. Eyes 15 receive the depressed portions 14 of the loops 13. Eyes 17 are connected with the lower ends of the spring 16 and engage eyes 18 which in turn are provided with depressions 19. The eyes 18 are formed from metal and are of a pattern usually employed for connecting suspenders to the buttons of trousers.

As illustrated in Fig. 1 of the drawing elastic devices which form the subject matter of the present invention are connected with the long portions 10 and the short portions 10' of the suspender straps. A description of the elastics in the long portions of the suspender straps will now be given. These elastics consist of terminal members 20 formed from spring wire and having loops 21 which are secured to the long portions 10 of the suspenders by means of threads or stitching 22. The terminal members 20 are provided with eyes 23 which receive pivot pins 24. Connected with the terminal members 20 by means of the pivot pins 24 is a series of intermediate members and as these members are all alike, a description of one will answer for all. The intermediate members 25 are formed from spring wire and are preferably S-shaped in configuration. The upper terminal member 25 is connected with the pin 24. Each member 25 is provided at its lower end with an eye 26 which receives a pin 27 which is also connected with the next adjacent intermediate member. It may be stated that the portion of the member 20 which lies below the loop 21 is also S-shaped or ogee-shaped.

The lower terminal member 28 is connected at its upper end with a lowermost pin 27. The upper portion of this member...
28 is also ogee-shaped. The member 28 is provided at its lower end with a loop 29 which is secured to the long portion 10 of the suspender by means of thread or stitching 30. The elastic so formed is positioned between the opposite sides of the material which constitutes the long portion 10 of the suspender strap as best illustrated in Fig. 2 of the drawing. The suspender straps may be made from fabric or other comparatively inelastic material and about the elastic of which the members 20, 25 and 28 form component parts this material may be slightly folded as illustrated in Fig. 1 of the drawing.

A description of the elastics which are located in the shorter end portions 10’ of the suspender straps will now be given. These elastics consist of terminal members 31, the lower portions of which are ogee-shaped. The members 31 are provided at their upper ends with loops 32 which in turn are secured to the portions 10’ of the suspender straps by means of threads or stitching 33. The members 31 are provided at their lower ends with eyes 34 which receive pins 35. A series of ogee-shaped members is connected with the lower end of each terminal member 31. The intermediate ogee-shaped members 36 are all alike and a description of one will answer for all. These members are ogee-shaped and are provided at their lower ends with eyes 37 which receive pins 38. The uppermost member 36 is connected with a pin 35 carried by the member 31. Throughout the series of member 36 the upper ends of the lowermost members are connected with the pins 37 carried at the lower ends of the uppermost members. The lower terminal member of the elastic which is located in the short end 10” of the suspender strap is illustrated at 39. This member is secured to the end portion of the strap by means of thread or stitching 40. Below the lower end of the strap, the member 39 is provided with an eye 41 which in turn is provided with a depression 41’. The member 40 is formed from spring wire and beyond the upper end of the eye 41 the extremity 42 of the wire is inserted in the short end 10’ of the suspender strap and is secured by means of thread or stitching 43.

The elastics in the short end portions 10’ of the suspender straps are secured approximately in the same manner as the elastics in the longer end portions 10 thereof and the material of the straps is slightly folded as illustrated in Fig. 1 of the drawing.

While this elastic is shown applied to the straps of suspenders it is obvious that the elastic may be applied to any other support for articles of wearing apparel. While it is preferable to have the elastics located between the opposite side portions of the straps or inclosed therein this is not absolutely necessary for the elastics may if desired be applied directly to the inner or outer sides of the straps. It is also obvious that the configuration of the members of the elastics may be varied or changed but the shape of these members as illustrated and described is preferred for the reason that they possess maximum elasticity and flexibility. Therefore it will be seen that an elastic composed of resilient metallic members is provided and that the elastics will effectively support a garment which is attached to the suspenders and at the same time will give sufficiently to permit the wearer to exercise the free use of his body.

It is obvious that if desired any suitable supporting means may be connected with the suspenders for supporting the nether garments of a wearer if desired and these additional supports may be of any desired pattern or design.

Having described the invention what is claimed is:

1. An elastic member comprising a series of S-shaped spring wire members each ending in an eye at its terminals, pins held within said eyes to pivotally connect one member to the other, the upper terminal member of the series having an elongated loop arranged to receive the end of a suspender strap, the lower terminal member of the series having an eye ending in a button receiving loop, as, and for the purpose set forth.

2. An elastic member of the character described, comprising a series of S-shaped spring wire members each ending in an eye, pins within said eyes to pivotally connect said members, a spring wire member pivotally secured to the upper S-shaped member of the series ending in an integral loop arranged to receive a suspender strap, and a spring wire member comprising an eye ending in a button receiving loop, pivotally secured to said lower member.

In testimony whereof I affix my signature, in presence of two witnesses.

WILLIAM C. HOLIDAY.

Witnesses:
B. G. SMITH,
C. T. SESSIONS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D.C."